No.: 10/647,341

## AMENDMENTS TO THE ABSTRACT

Please amend the abstract as attached:

No.: 10/647,341

## ABSTRACT OF THE DISCLOSURE

This invention relates to an optical transmission system which allows high quality transmission of signal light where a plurality of signal channels are multiplexed, and has a configuration that is particularly suitable for CWDM optical transmission. In the optical transmission system, the plurality of signal channels propagating through the optical fiber transmission line are demultiplexed into a signal channel group in the first wavelength band  $\Lambda_1$  and a signal channel group in the second wavelength band  $\Lambda_2$ . Then, each signal channel in the second wavelength band  $\Lambda_2$  where the absolute value of chromatic dispersion is large is dispersion-compensated. When the bit rate is B (Gb/s) at a specific wavelength in the second wavelength band  $\Lambda_2$  where the total chromatic dispersion in the optical fiber transmission line and the dispersion compensator is highest, the chromatic dispersion value at this specific wavelength is set to be grater greater than 0 (ps/nm) but 7500/B<sup>2</sup> (ps/nm) or less, and is set such that the loss in the second wavelength band  $\Lambda_2$  is lower than the highest loss in the first wavelength band  $\Lambda_1$ .